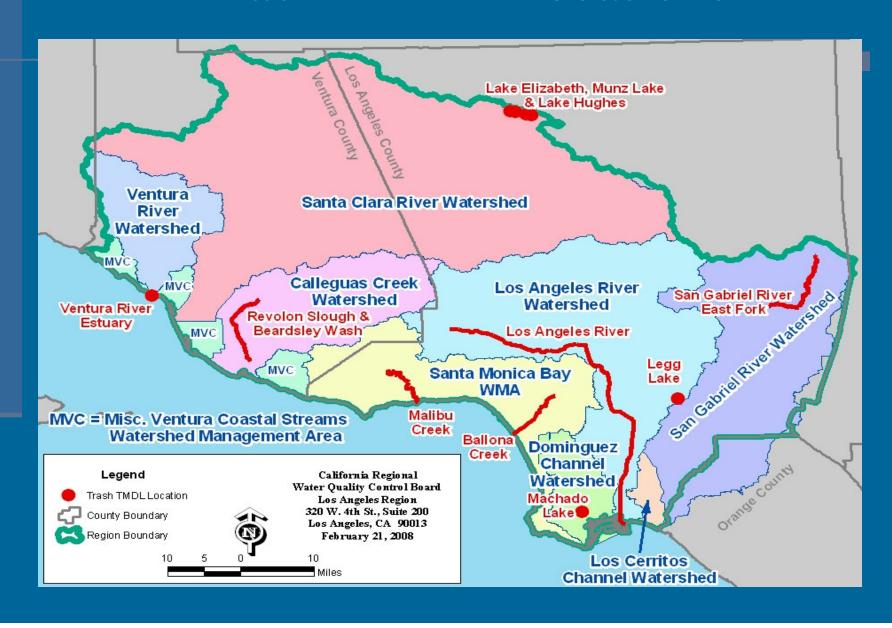
# Trash TMDL Nonpoint Source Trash Management

Eric Wu, Ph.D., P.E. Los Angeles Regional Water Quality Control Board December 8, 2010

#### Trash TMDL Locations



# Water Quality Objectives

#### Basin Plan

- "Waters shall not contain floating materials including solids, liquids, foams, and scum in concentrations that cause nuisance or adversely affect beneficial uses."
- "Waters shall not contain suspended or settleable material in concentrations that cause nuisance or adversely affect beneficial uses."

## Numeric Target for Trash

- Numeric Target = Zero Trash
- Point Sources
  - No Trash Discharge
- Nonpoint Sources
  - No trash immediately after each cleanup event
  - Trash does not accumulate in deleterious amounts between cleanups

# Compliance Strategy – Trash Point Sources

- Full capture systems
  - Trap all particles greater than 5mm
  - Treat not less than the peak flow rate resulting from a 1-yr, 1-hr storm
- Structural or non-structural Best Management Practices (BMPs)

# Full Capture Systems









# Nonpoint Source Areas

Areas not covered by the MS4, and sources of fugitive trash:

- Open Space and Parks
  - Ex: Cal Dept of Rec and Parks, NPS,
- Beaches and Harbors
  - Ex: Dept of Beaches and Harbors, Cities
- Agricultural areas
- Private Property owners along waterbodies

#### Load Allocations

- Final LA = Zero trash
  - Definition: No trash on the shoreline or beaches, or in harbors adjacent to waterbodies, immediately following each assessment and collection event consistent with the established MFAC/BMP program
- Baseline LA: 640 gallons per square mile
  - Based on a small scale study
  - May be modified during reopen of TMDLs

# Compliance Strategy - Trash Nonpoint Sources

- Minimum Frequency of Assessment and Collection with BMPs (MFAC/BMP) Program
  - Requirement of regular cleanup
  - Assessment
  - Trash Monitoring and Reporting Plan (TMRP)
  - Executive Officer to revise frequency based on effectiveness of MFAC/BMP

#### **Critical Conditions**

- Storm
  - Proposed by responsible municipalities for approval
- High Wind Advisory
- Visitations
  - Use of the parks
  - Long weekends
  - Special events

# Locations and Frequencies

- Inspections
- Some Specified in the BPA
- Additional locations proposed in TMRP by RPs
- Frequency
  - Current cleanup schedules
  - Trash impairment situation
  - Critical conditions

# Compliance Determination

- Trash monitoring and reporting plan (TMRP) submittal
- No Trash after each cleanup event
- Accumulated trash iterative approach
  - 1. Less than baseline LA
  - 2. Trash quantity in a decreasing trend
  - 3. Otherwise
    - Increase frequency
    - Impose additional BMPs
- Annual report

# Compliance Requirements Beaches and Harbors

- Daily Cleanup
  - Not accounting trash collected each day
- Benchmark
  - Based on Coastal Cleanup Day data
  - Implement additional BMPs

# Implementation and Monitoring

- Point Sources
  - MS-4 Stormwater Permits
  - Achieve Zero Trash in 8 years
- Nonpoint Sources
  - Conditional Waiver
  - Achieve Zero Trash in 5 years
- Other Orders for PS/NPS
  - 13267 Orders
  - CAO
- Monitoring Annual TMRP Report

### Questions?

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